

Glossary



HD TV – high-definition TV is referred to as HDTV. The picture is made up of significantly more pixels than a standard-definition (SD) image. An HDTV receiver is also able to show SD-quality images.



FULL HD 1080p – this is the highest picture quality, with a resolution of 1920 x 1080 pixels.



Energy saving – this indicates that the product has been designed for low power consumption.



Unicable ready – enables all channels from a particular satellite to be received and distributed using a single cable system.



RAPS – a free-to-use automatic receiver programming system. Simply set it up once, and you'll never need to search for channels again. RAPS is designed specifically for satellite channels.



RASS – automatic receiver sorting system. Cable networks deliver a huge range of channels to your smart products. RASS provides an easy-to-use overview of what is on offer.



Common Interface (CI) – this is an interface for modules that, in combination with the corresponding smart cards, can be used to unlock encrypted TV channels.



HDMI – a high-definition multimedia interface enables the transfer of audio and video, e.g. between the receiver and the TV set itself. This type of data transfer ensures the highest possible sound and picture quality.



HDMI cable included – an HDMI cable for the transfer of audio/visual data is included in the package.



SCART – is an analog interface. A SCART connection allows you to link a video recorder or games console to the TV via the receiver, quickly and simply.



Power switch – this logo shows that this device can be switched off completely. Many receivers can only be set to standby mode. This feature allows you to save energy without having to unplug the device completely.



Electronic program guide (EPG) – the electronic program guide offers users an on-screen overview of all channels. Viewers can see individual program details and record selected content at the push of a button.



PVR-ready – PVR-ready devices are capable of recording content, either to an internal or external hard drive.



Mediaplayer – a media player allows you to play diverse images, for example from video cameras, computers, mobile phones, and MP3 players, in a slideshow.



smartPORTAL – an easy-to-use interface for TV, video and Internet, with an application to meet your every need.



LAN/ethernet connection – enables you, for example, to connect your set-top box to your home network and the Internet.



WLAN-capable – allows wireless connection to your home network and the Internet.



smartPORTAL-ready – using a wireless USB adapter, your receiver can access the smartPORTAL at any time.



Internet access – your receiver can be connected to the Internet so you can access web applications on your television.



VF display – vacuum fluorescent display, used to display the name of the TV or radio station on the receiver.



USB port – has many possible applications. For example, it can be used for connecting an external hard drive or transferring data to a USB stick. It can also provide the power supply for small hard drives.



Two USB ports – indicates a product with two USB ports.



eSATA port – for connecting external storage devices.



Infrared eye – the infrared sensor allows the receiver to be hidden from view, but still pick up signal from the remote control.



OTA – over the air: allows you to update your product with important new software via satellite, quickly and easily.



UPDATE via USB – your smart product can be updated with new software via the USB port.



UPDATE via RS 232 – software updates are available via the RS 232 port on your computer.



Parental control – protect your children by blocking certain channels, limiting what they can and cannot see.



FAVS – lists of favorites. Organize your TV and radio stations any way you like. You can also save your Internet favorites in the smartPORTAL.

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SMART
ENJOY YOUR ENTERTAINMENT

All in!
smart-Entertainment – more than TV

Receiver product catalog 2012

TELEVISION

RADIO

INTERNET

smart – made in the Black Forest

Made in St. Georgen to be exact – home to inventors and innovators, deep in the heart of Germany's Black Forest. That's where you'll find us, in buildings once home to the famous German hi-fi brand, Dual, where the memory of their technical genius lingers on. *smart* is a young hi-tech company, we are filled with a passion and enthusiasm for our craft. In true Black Forest style, we pay exacting attention to detail, paving the way for the future of television.

We have the technical expertise and vision to constantly challenge the ordinary and the expected. We pride ourselves on delivering easy-to-use, high-quality products that bring the wonders of digital entertainment straight to your living room. Entertainment tailored to your needs and preferences, that's our philosophy – we like to think of ourselves as smart by name, and *smart* by nature.

*This is more than TV,
this is smart entertainment*

smart electronic GmbH

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Technical specifications and images are not binding and subject to change.

We hope you enjoy your smart entertainment

SMART
ENJOY YOUR ENTERTAINMENT

Glossary



NAGRA embedded – the encryption system used for HD+ channels.



Suitable for Austria – means your product is certified for and capable of receiving Austrian television in conjunction with the smart SCAM-IR module and a smart card.



CONAX embedded – an encryption system that is particularly popular in Scandinavia, but also in German-speaking Europe.



Suitable for Switzerland – in conjunction with the corresponding module and smart card, your certified receiver can pick up Swiss television.



NDS embedded – the encryption system used by Kabel Deutschland.



HbbTV – combines TV with access to the Internet and to many channels' media libraries.



S-VIDEO – connection via cable that delivers superior picture quality.



12 V – means you can use the receiver with a 12 V power supply, for example in a caravan or on a boat.



HD+ – a digital platform operated by HD Plus GmbH, which provides high-definition digital satellite television. It is the technical and commercial basis for receiving many German TV channels in high definition.



RF modulator – you can connect the receiver to the aerial socket on your TV.



smartLINK – this interface enables you to operate compatible devices with the remote control.



CI Plus – an enhanced version of CI. An increasing number of TV stations are using CI Plus to protect and manage the use of their content. A module for the relevant encryption system goes into the CI Plus slot on the receiver; a smart card from the channel provider is also necessary.

This is more than TV – this is smart entertainment

smart entertainment has changed the game: now, with a simple push of a button, you have access to a whole new universe of exciting opportunities. Our new, custom-designed TV portal has been created by a dedicated team of experts – and it delivers previously undreamt of possibilities. Traditional television has been consigned to the history books: *smart* entertainment has taken center stage.

smart for so many reasons – every receiver is brimming with features, so there's something for everybody. And what's more, each product is intuitive, with a diverse range of user-friendly capabilities, combining the very latest technology with a high-quality look and feel. Welcome to *smart* entertainment.



SHOPPING

GAMING

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Which receiver is right for you?

You just want to watch TV – sit back, relax and enjoy your favorite show. Then you're in the right place. But which receiver is the right one for you?

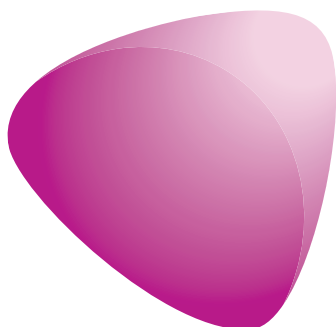
What is a receiver anyway?

A receiver, sometimes also called a set-top box, picks up radio and TV signals, allowing you to access content via satellite (DVB-S/S2), cable (DVB-C), Internet (IPTV/OTT) or aerial (DVB-T – terrestrial).

No matter what program or what channel you want, we've got the right receiver for you.

smart offers you a wide range of options. We provide every kind of set-top box, ranging from good-quality entry level products to all-singing, all-dancing models for the tech-savvy among you.

So, let's take a look.



That little something extra

Well, you could just buy the simplest and cheapest receiver. No problem. But bear in mind that our high-tech models may have features that you will want in the future – even if you don't think you will use them right now. If you choose to upgrade to an HD-ready TV, an HD receiver will immediately deliver better picture quality. CI+ opens up the possibility of a wider range of programs and an IPTV-enabled receiver will give you access to all the best new online content.



All simple, all smart. A complete product overview:

1	2	3	4	5	6	7	8	9	10	11	12	13
HD TV	Full HD 1080p	SAVE	UNICABLE READY	SARS	Receiver Automatic Sorting System	CI+ MODUL INTERFACE	NAGRA EMBEDED	CONAX EMBEDED	NDS EMBEDED	HDMI	SCART	Power

DVB-S / S2

	1	2	3	4	5	6	7	8	9	10	11	12	13
VX10	✓	✓	✓	✓	✓			✓			✓		✓
CX10	✓	✓	✓	✓	✓			✓			✓		✓
Zappix HD+	✓	✓	✓	✓	✓			✓			✓		✓
CX20	✓	✓	✓	✓	✓		✓*				✓		✓
CX01	✓	✓	✓	✓	✓						✓		✓
MX Flat HD	✓	✓	✓	✓	✓						✓		
MX04 L			✓	✓	✓							✓	✓
MX02 L			✓	✓	✓								

DVB-T

	1	2	3	4	5	6	7	8	9	10	11	12	13
MX63	✓	✓	✓								✓		
MX52			✓										

DVB-C

	1	2	3	4	5	6	7	8	9	10	11	12	13
Zappix KD	✓	✓	✓			✓	✓*			✓	✓		✓
CX70	✓	✓	✓			✓	✓*			✓	✓		✓
CX71	✓	✓	✓			✓				✓	✓		✓
CX72	✓	✓	✓			✓		✓		✓	✓		✓
MX81			✓				✓			✓			



* with CI+ slot

For up-to-the-minute facts and figures - plus reviews of all our smart receivers - check out www.smart-electronic.de, or like us on /smartelectronic.

Whether you have satellite, cable or terrestrial, *smart* has the right receiver for you. We make it as easy and convenient as possible to get the most out of your TV. This overview shows you all our *smart* receivers at

a glance. Take a look at what they have to offer and decide which one is best for your needs. If you can't find it here, it hasn't been invented yet! Make the *smart* choice.

Эко	PVR READY	Контроль Родительского	Медиа	SP+	LAN	WLAN	PORTAL READY	Internet @Home	DISPLAY	USB	e-SATA	Remote-EYE	Over-The-Air	smartLINK	Избранное	12V
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

** optional feature

RAPS-CAPABLE RECEIVERS

VX10

CX10

ZAPPIX HD+

CX20

CX01

MX FLAT HD

MX04 L

MX02 L



RAPS: Don't waste time programming channels and searching program lists

During the design phase, our product developers had a bit of an obsession: they wanted to reduce to an absolute minimum the amount of time and effort spent programming channels. And then came the breakthrough: RAPS, an automatic receiver programming system. In a nutshell – once you have entered your preferences, your work is done. There's no need to reprogram every time new channels appear or existing ones switch frequencies – RAPS does it all for you. We won't confuse you with too much technical jargon: we just deliver intelligent solutions that leave you free to enjoy your favorite TV shows as simply and easily as possible. All *smart* satellite receivers are equipped with RAPS, and they couldn't be easier to operate.

When you switch on your receiver for the first time, enter your settings. You only have to do this once. Select your preferred language, country, regional programming and whichever pay TV package you subscribe to – this won't take more than two minutes. Tops. After that, RAPS steps in and performs the chores. All channels are updated automatically in moments, and what's more, you'll always find them in the correct order. New channels will be added in the appropriate places in the

list, and standard-definition channels will be replaced by their high-definition equivalents in an instant. In addition, RAPS enables you to choose from a wide variety of channels, including genres such as news, culture and music. This exceptionally easy-to-use system has been recognized with the coveted Plus X Award.





RASS-CAPABLE RECEIVERS

ZAPPIX KD *

CX70

CX71 *

CX72 *

Why you can't do without RASS Organizing your cable channels, made easy

Imagine having your very own personal TV channel. Imagine being able to watch that show you missed yesterday. Imagine being able to start the Six O'clock News at six fifteen, pause it to check something online, post a quick message on Facebook, and then start the program again from precisely the moment you left it. Imagine being able to do all this on your normal flatscreen TV – without even booting up your computer. We developed smartPORTAL+ to make this – and much, much more – possible. It combines all the benefits of TV with everything the World Wide Web has to offer: letting you shop, play games, surf the Net, watch videos and listen to the radio. For entertainment that exceeds your imagination – the Internet TV of the future.

* prepared



THE NEW smartPORTAL: smart entertainment – total flexibility, total enjoyment

Imagine having your very own personal TV channel. Imagine being able to watch that show you missed yesterday. Imagine being able to start the Six O'clock News at six fifteen, pause it to check something online, post a quick message on Facebook, and then start the program again from precisely the moment you left it. Imagine being able to do all this on your normal flatscreen

TV – without even booting up your computer. We developed smartPORTAL+ to make this – and much, much more – possible. It combines all the benefits of TV with everything the World Wide Web has to offer: letting you shop, play games, surf the Net, watch videos and listen to the radio. For entertainment that exceeds your imagination – the Internet TV of the future.



Innovative. Intuitive. Interactive.

It's already installed on your *smart* receiver. When you switch it on, you can access the whole spectrum of online services with just a few clicks. In a matter of seconds, you can choose from Internet television providers' entire media libraries, or sample social networks like Facebook, Twitter and Flickr. You don't even need to switch on your PC. Enjoy the latest music, exciting videos, thrilling games and up-to-the-minute news from all over the globe. And that's not all. You can tailor your smartPORTAL+ to your preferences, just like you customize your computer: you can create a personal, password-protected account, and design your very own user interface, complete with your favorite apps. It's that easy to transform your regular TV into a *smart* Internet TV, with exceptional capabilities.



DVB-S/S2

***Satellite TV with smart:
enter a new and exciting
dimension in television***

Satellite TV made easy: just enter your settings into RAPS and it will set up your TV for you, connect to the satellite, and even program all your channels. It sorts your TV and radio stations into a clear, logical order, in line with your personal preferences. Our automatic receiver programming system (RAPS) does everything for you. For an astonishing variety of online content, you can also add the smartPORTAL+ option.

There's just one thing left to do - put up your feet, put on your TV and enjoy. It's so *smart*.



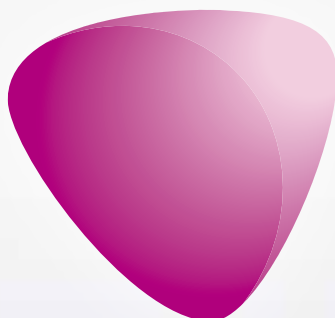
VX10



So many possibilities, so user-friendly. With the *smart VX10*, television will never be the same again. It's a complete step-change in how we watch TV.

You decide what you want to view – the VX10 satellite opens up so many possibilities, and brings you web TV in pin-sharp HD. Save shows and watch them time and again with the record and pause feature – the VX10 also lets you pause live TV. And the integrated media player makes it so easy to look at photos, view videos and listen to music. With the smartPORTAL, you gain unlimited access to your favorite Internet radio shows, the best in Internet TV, your beloved shopping portals and a variety of other online services – all from the comfort of your couch.

This is all in:

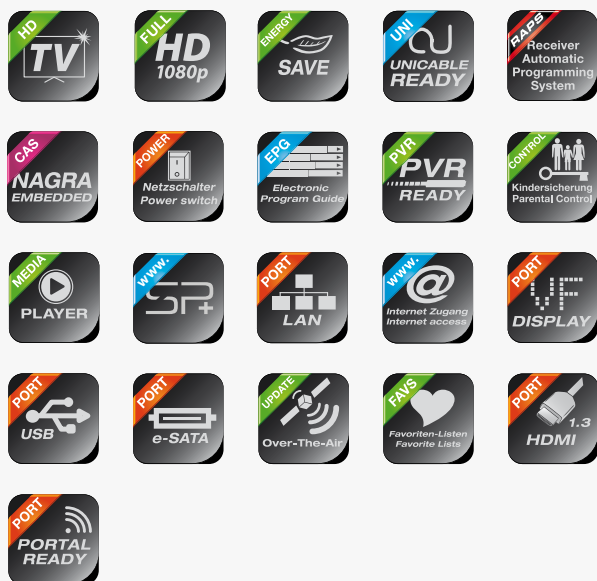


HD+ and smartPORTAL, a new era in television entertainment

CX10



This is all in:



The satellite receiver for HD and HD+.

Think of this model as a little brother to the VX10. The CX10 doesn't have wireless internet connectivity, but it is still very well-equipped. Highlights include USB and eSATA ports for connecting external hard drives, enabling you to record and pause live TV. Add to that the digital video and audio output port, an 8-digit alphanumeric display, energy-saving power supply and power switch. And you get an integrated media player that lets you watch movies, listen to music and view photos.

Truly brilliant images – in more ways than one



Zappix HD+



HD satellite TV receiver with HD+ capability: the ultimate receiver for high-definition viewing.

The Zappix HD+ is the receiver for anybody who wants the very best in picture quality and the chance to enjoy all the top HD channels. The included HD+ card opens the door to twelve months' free access to a breathtaking range of TV (available in Germany only). When combined with a wireless Internet stick (available separately), the Zappix HD+ transforms into an all-round device for all your multimedia needs. It gives you access

to smartPORTAL and Hbb TV (Hybrid Broadcast Broad-band TV), as well as many broadcasters' online media libraries. The Zappix HD+ is a fully-featured satellite receiver with an integrated media player for movies, music and photos. And what's more, it's PVR-ready – so you can easily store content to an external hard drive.

This is all in:



* Over-the-air updates, smartPORTAL and Wi-Fi available as optional extras

A world of entertainment at your fingertips

CX20



The HDTV receiver with CI+ gives you so much more.

The CI+ slot ensures the CX20 is perfectly equipped to decode encrypted channels (such as Sky*), with the corresponding module and card. The device is packed with features – it is PVR-ready, so you can save content to an external hard drive, and pause live TV.

*** Suitable for Sky – with a module and Sky viewing card, the CX20 is the perfect choice for receiving Sky channels.**

This is all in:



The best of free-to-air TV

CX01



HD satellite TV receiver: fantastic for free-to-air television. The CX01 is just the right receiver for anyone who likes a bargain, but doesn't like to compromise on quality. With HD for an outstanding picture, it is available PVR-ready,* enabling you to save content to an external hard drive. It also features RAPS, so your TV guide is always up-to-date. Now that's what we call *smart* entertainment.



This is all in:



* PVR-ready available as optional extra

Good things come in small packages

MX Flat HD



Small in size, big on performance – the MX Flat HD.

With its space-saving dimensions, this device can be hidden away, out of sight. The infrared sensor included in the pack is the only part that must be visible. You can connect an external hard drive via the USB port, so you can enjoy your videos, music and photos directly through your TV.

The MX Flat HD plugs in to the HDMI port. There are no unsightly tangled cables, and there is no extra box on your shelf.

This is all in:



* PVR ready and smartLink available as optional extra

The best-selling smart electronic product

MX04 L

Satellite receiver MX04 L



smart. Satellite receiver. It's our best-selling product, and it is really simple to operate.

With the MX04 L, you can expect *smart* TV at its easiest. This is the receiver for free-to-air TV and radio stations. With its intuitive menu navigation and RAPS, this is the ideal entry-level product for a new era in entertainment.

This is all in:

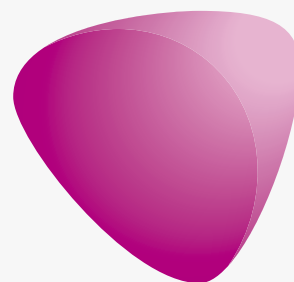


TV at the touch of a button

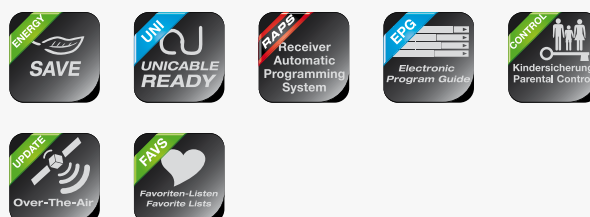
MX02 L



The MX02 L is your gateway to a new era in television entertainment. The MX02 L is ideal for free-to-air TV and radio stations. And it's not just a visual treat – the MX02 L features an audio output port, giving you out-standing sound to match the quality of the picture.



This is all in:



DVB-T

Terrestrial receivers for smart entertainment – anywhere

Experience digital TV and radio anywhere with a compact receiver from *smart*.

Our user-friendly SDTV receivers are ideal for use out and about on campsites thanks to the durable casing and compact design. Short of time and your favorite show is about to start?

No problem - *smart* also offers DVB-T receivers that allow you to record live TV.

Catch your favorite shows anywhere, with *smart*.

The DVB-T specialist

MX63

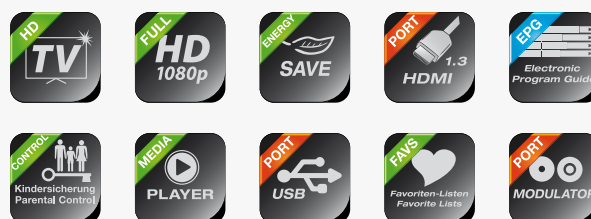


The smart MX63 delivers excellent picture quality, and boasts a highly intuitive interface. But it is much more than a top-notch receiver for digital TV and radio – it is also an easy-to-use multi-media center. It allows you to display photos and other images, and play videos and music stored on a USB device directly on your TV.

The integrated RF modulator lets you keep using your old TV set. There's no need for a SCART cable: just connect the receiver to your TV's modulator.



This is all in:



The right choice for all things terrestrial

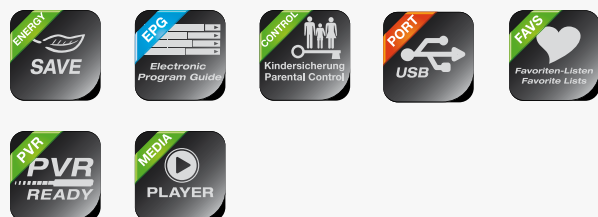
MX52



The MX52 keeps you up to date with all the latest TV.

This compact receiver from *smart* is specially designed to receive terrestrial TV and radio stations. The MX52 is seriously small, and incredibly easy to install and maintain.

This is all in:



* PVR-ready as an optional extra

DVB-C

One cable, infinite possibilities

Who would have thought cable TV could be so simple or so much fun? With *smart*, it can. What do you need? A basic entry-level model?

An all-singing, all-dancing HDTV-receiver complete with future-proof CI+ technology and a multimedia library featuring integrated access to Kabel Deutschland? Or maybe you are just ready to say goodbye to confusing menus? Ours is user-friendly and clearly structured. Whatever you want, we'll help you find the perfect solution. So sit back, relax and enjoy cable TV at its very best.

Kabel Deutschland compatible

Zappix KD



Zappix KD is designed with the Kabel Deutschland network in mind. It also accepts a Kabel Deutschland* smart card. Look at photos, watch films and listen to music on your television. It's simple with our integrated media player. The automatic receiver program, or RASS for short, keeps your Zappix KD up-to-date with available TV and radio channels. **Gone are the days of endless searching. Now you'll actually be able to find what you're looking for.**

You can also connect an external USB storage device and, using the PVR feature, you can record your favorite shows. From now on, it's down to you to decide when they're on.

* Make the most of all Kabel Deutschland has to offer. Call 0800 2787 000 (toll-free from German landlines) to request a Kabel Deutschland smart card.

This is all in:



Need more channels? Enable the cable

CX70



HDTV cable receiver with CI+ slot, allows you to pause and record live TV.

The CX70 is the ideal device for cable TV. Its CI+ slot means you can tune into encrypted channels such as Sky*. The CX70 features USB ports (front and rear) so that you can connect an external hard drive, an SPDIF output for audio, and much more. Enrich your experience with the media player: enjoy your home movies,

the latest MP3s or the coolest recordings on your very own TV.

*** Suitable for Sky – with a module and Sky viewing card, the CX70 is the perfect choice for receiving Sky channels.**

This is all in:



Digital cable TV and razor-sharp images

CX71

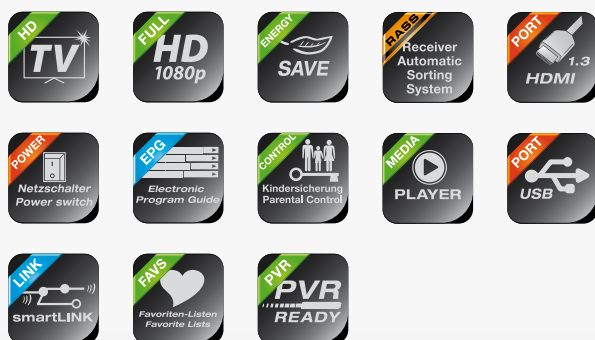


HDTV cable receiver for all free-to-air TV and radio stations.

The CX71 features a USB port for connecting an external hard drive, and a digital audio output port. The CX71 makes for an uncomplicated first step into the exciting world of digital cable TV. You'll be surprised at

just how easy it is, because RASS technology means you no longer have to search long and hard for available channels. It does it all for you.

This is all in:



* PVR-ready as an optional extra

Your connection to Conax content

CX72



HDTV cable receiver for all free-to-air TV and radio stations and Conax encrypted content.

The CX72 comes with a USB port for connecting an external hard drive, a digital audio output port and much more. It is an eco-friendly product that meets the latest standards for energy efficiency.



This is all in:



Get more from your cable TV with free and encrypted channels

MX81



Digital cable receiver for all free-to-air and encrypted TV and radio stations. When hooked up to a flat-screen TV, this product provides top-quality pictures and sound. But that's not all – the MX81 is an efficient, eco-friendly piece of kit that boasts extremely low power consumption. It also features a CI slot, can upscale standard definition channels to 720p/1080p, and much more.

This is all in:



IPTV/OTT

Internet TV set-top box: TV and Internet - better together

In addition to a wide range of receivers for DVB-S, DVB-C and DVB-T, *smart* offers user-friendly solutions for up-to-the-minute broadcasting methods such as IPTV. The new IPTV set-top box is just the beginning of a whole new range of *smart* Internet TV solutions